



**TRADOC COUNTERMINE**

# **U.S. Army Engineer School Countermine / Counter Booby Trap Center**

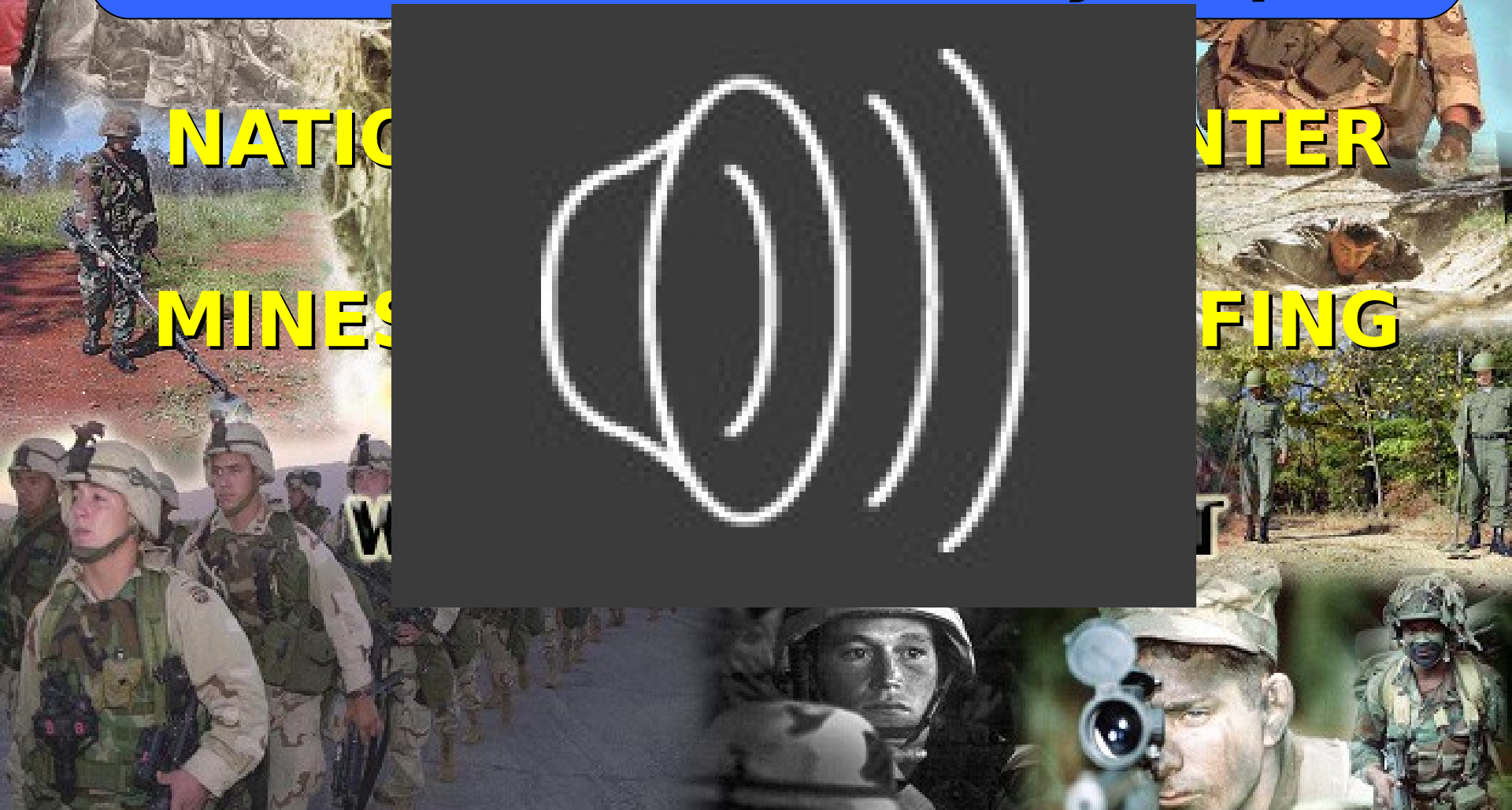
**NATIO**

**MINES**



**INTER**

**FING**



# **MINEFIELD INDICATORS & MARKINGS**



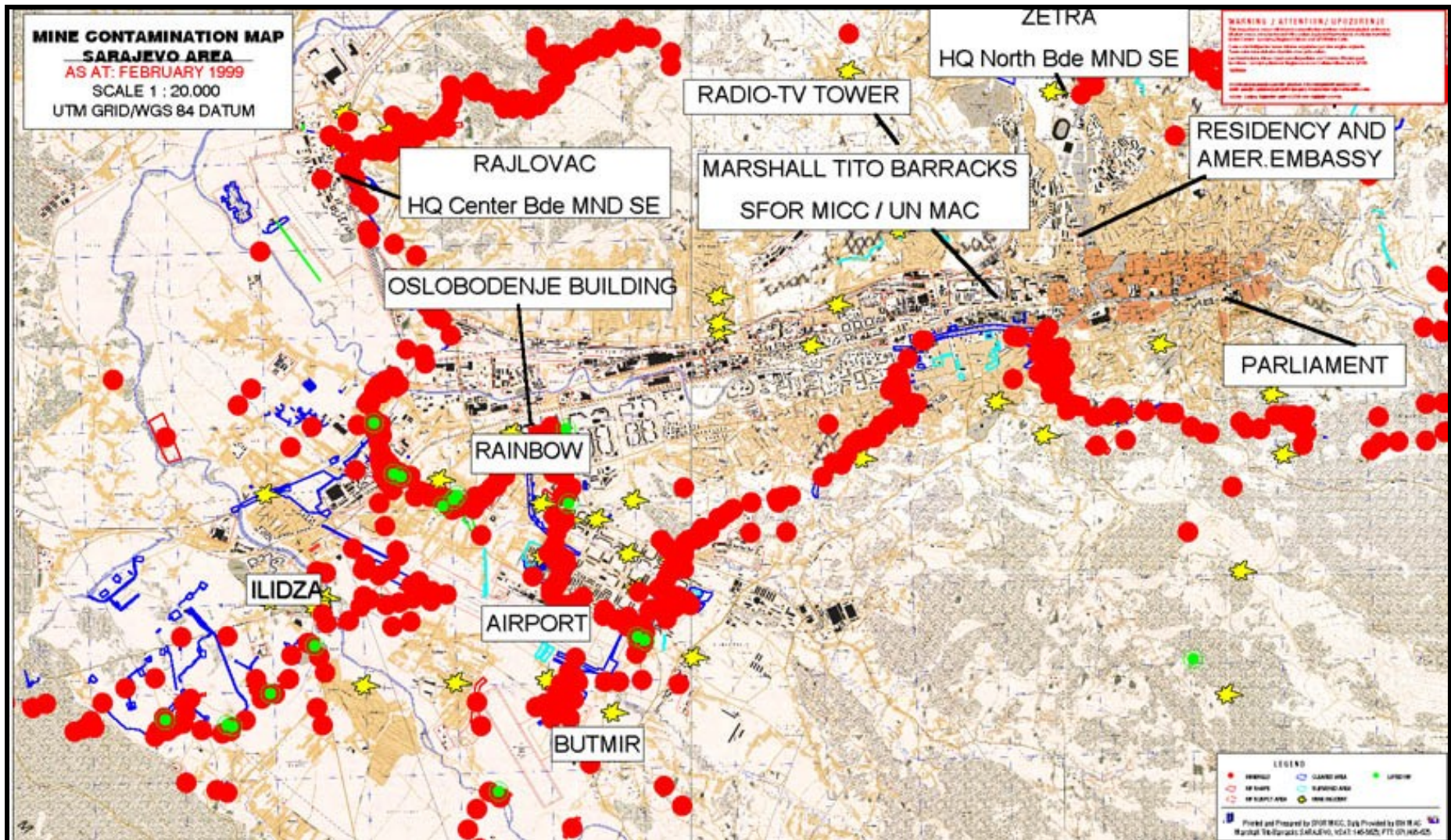
**PERIGO MINES!!**



**HOKOYO!!  
CHIMBAMBARIA!!  
DANGER MINES!!**



# MINE THREAT ASSESSMENT MAP



# MAN MADE INDICATORS





# STANDARD MINE SIGNS

## 2 Basic Designs

**Danger**



**PERIGO MINES!!**



**HOKOYO!!  
CHIMBAMBARIA!!  
DANGER MINES!!**

# SIGN INDICATORS





# BACKLASH AIRFIELD MINEFIELD MARKINGS





# VEHICLE MINE INDICATORS





# BATTLE POSITIONS AND WAR DEBRIS





# BAGRAM RUSSIAN MINEFIELD FENCING





# BAGRAM ISAF MINEFIELD FENCING

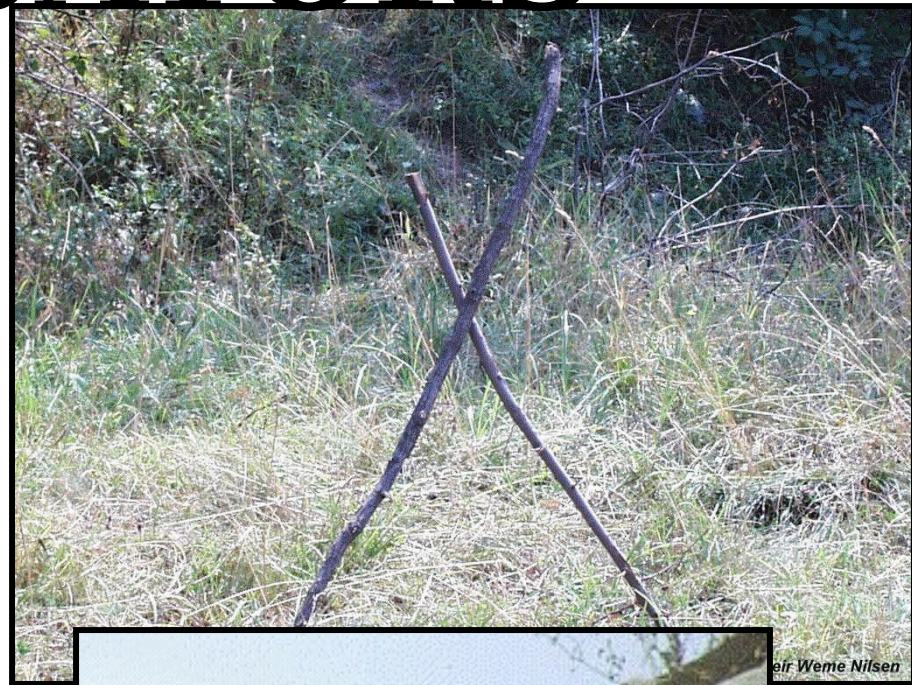


# IMPROVIZED INDICATORS





# IMPROVIZED INDICATORS



Werner Weme Nilsen



# IMPROVISED INDICATORS





# BAGRAM AIRFIELD IMPROVIZED MINEFIELD MARKINGS





# IMPROVIZED LOCAL





# IMPROVIZED LOCAL



# NATURAL INDICATORS





# HUMAN INDICATORS





# ANIMAL MINE INDICATORS





# OTHER TYPES OF INDICATORS SHORT GRASS



**MINE BOXES**



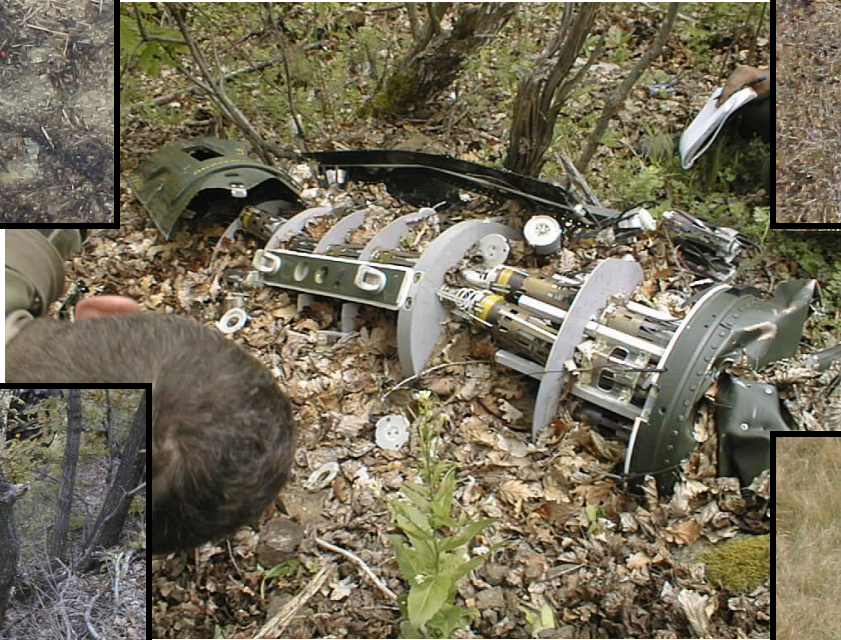
# VEGETATION INDICATORS

UXO





# MUNITIONS INDICATORS/CANISTER S





# CLUSTER BOMB MUNITIONS





# THE





# **MOUNTED AND DISMOUNTED EXTRACTION METHODS**





# **BASIC PRINCIPLES**

## **Key Points**

- 1. Immediate action**
- 2. Control**
- 3. Resist the urge to rush**
- 4. Analyze the  
information**
- 5. Make decision**



# **BASIC PRINCIPLES**

- **SANDI (GTA 5-10-44)**
  - **Stop**
  - **Assess**
  - **Note**
  - **Draw Back**
  - **Inform**



# **LOOK/FEEL/PROBE DRILL**

## **TECHNIQUE**

- **LOOK-** mines, tripwires, disturbances
- **FEEL-** pressure plates, prongs
- **PROBE-** 30° angle, 2 cm spacing, 3” depth
  - **Repeat until out of hazard area**



# **ADDITIONAL POINTS**

- **Probing Uniform**
- **Probing Cautions**
- **Marking**
- **Extraction Kits**



# **DISMOUNTED EXTRACTION METHODS**





# **DISMOUNTED EXTRACTION INDIVIDUAL**

- **Execute Immediate Action**
- **Follow SANDI principles**
- **Use an extraction method to Known Safe Area**

## **Methods**

- **Reverse out using footprints**
- **Probe “stepping stones” to Known Safe Area**
- **Probe in prone position**



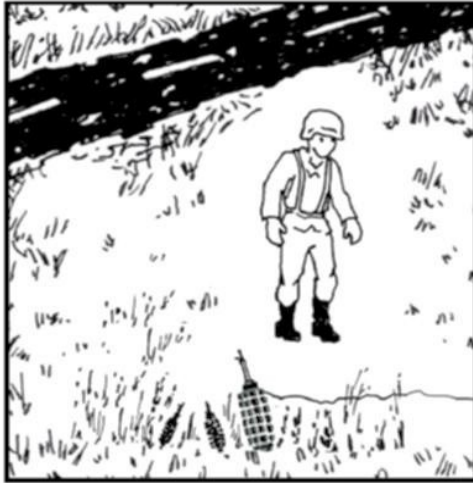
# HOW TO RESPOND IF ALONE-FOOTPRINTS



**Reverse out using footprints**

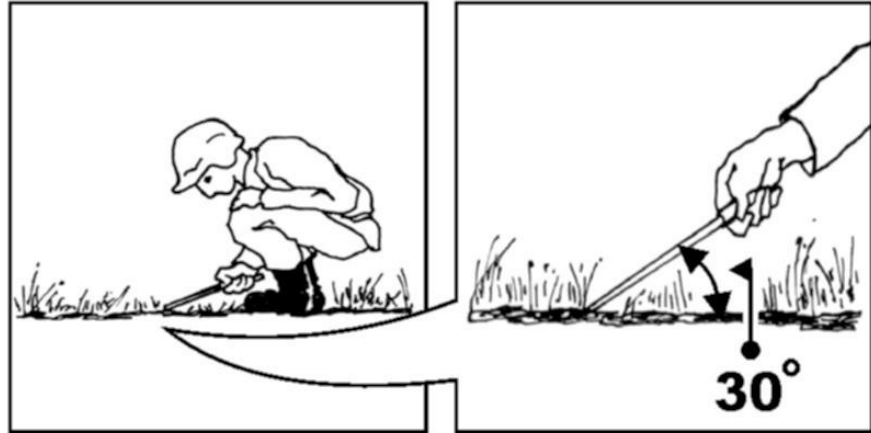


# HOW TO RESPOND IF ALONE-NO FOOTPRINTS



**“LOOK, FEEL, PROBE” DRILL**

# HOW TO RESPOND IF ALONE



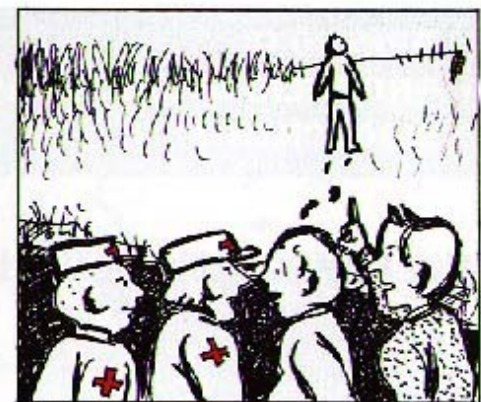
**Probe “Stepping stones” to step into**



# **DISMOUNTED EXTRACTION GROUP**

- **Execute Immediate Action**
- **Follow SANDI principles**
- **No additional personnel in minefield**
- **Establish security**
- **Report**
- **Prepare for rescue personnel**

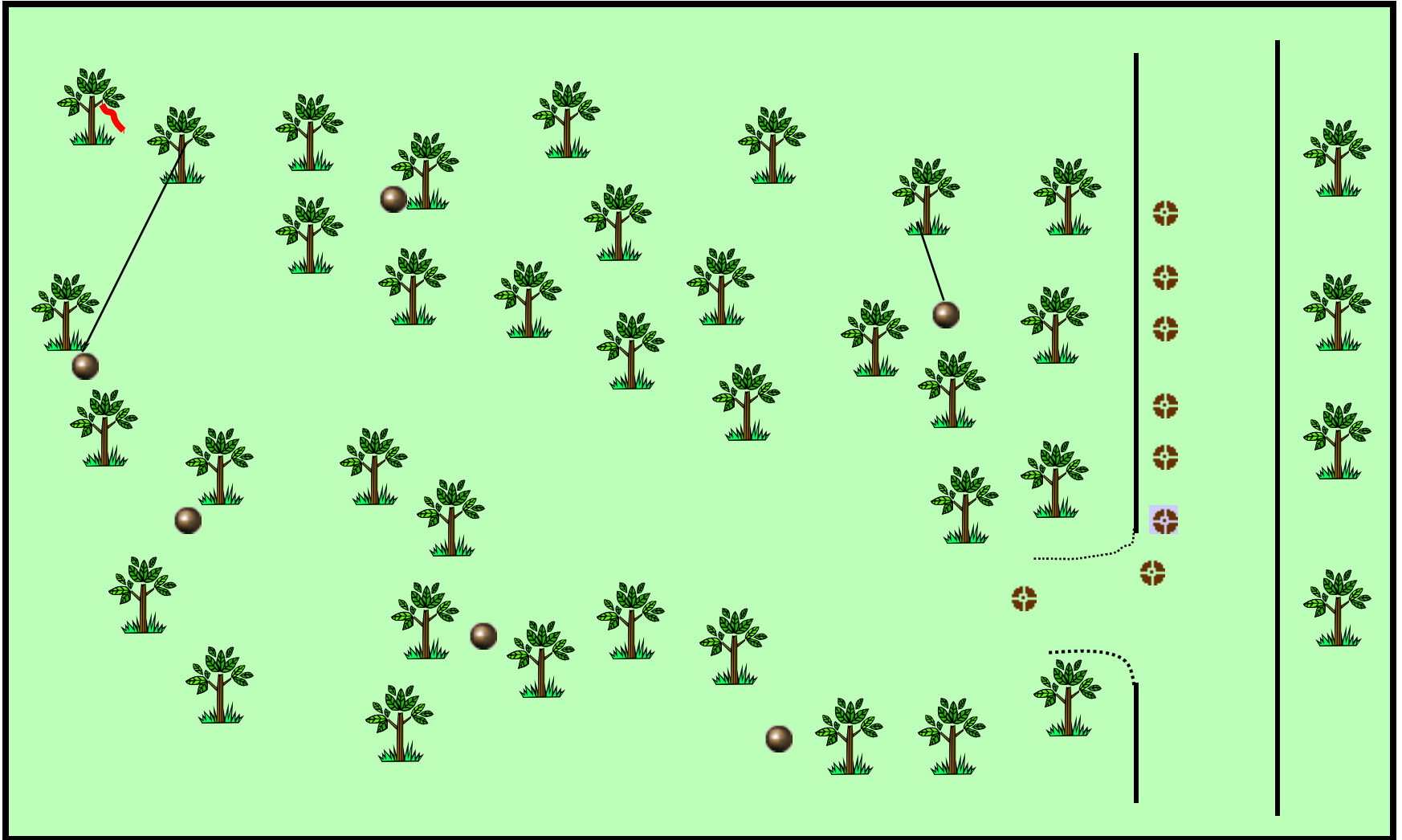
# HOW TO RESPOND IN A GROUP



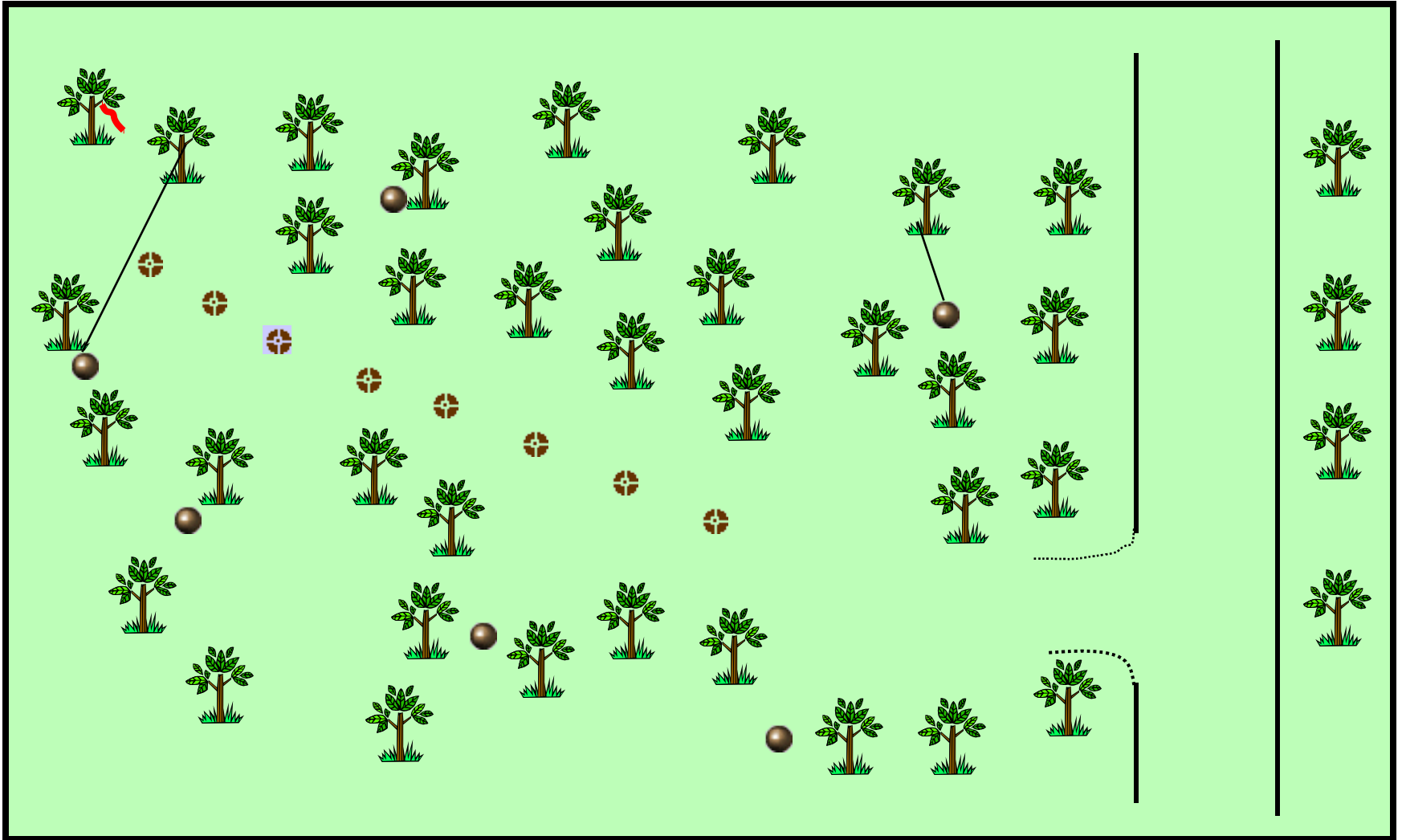
**Remain still until help arrives**



# HOW TO RESPOND IN A GROUP

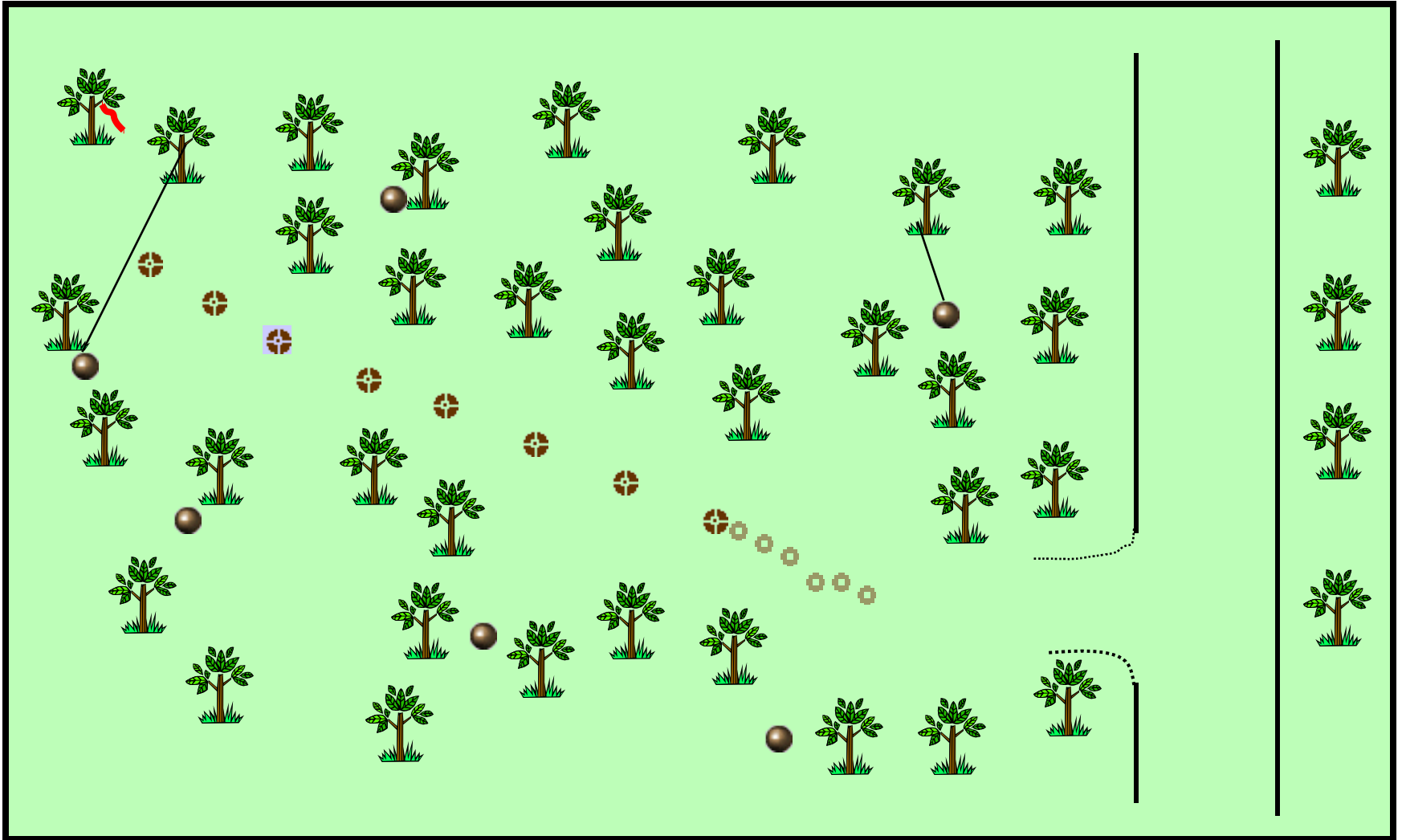


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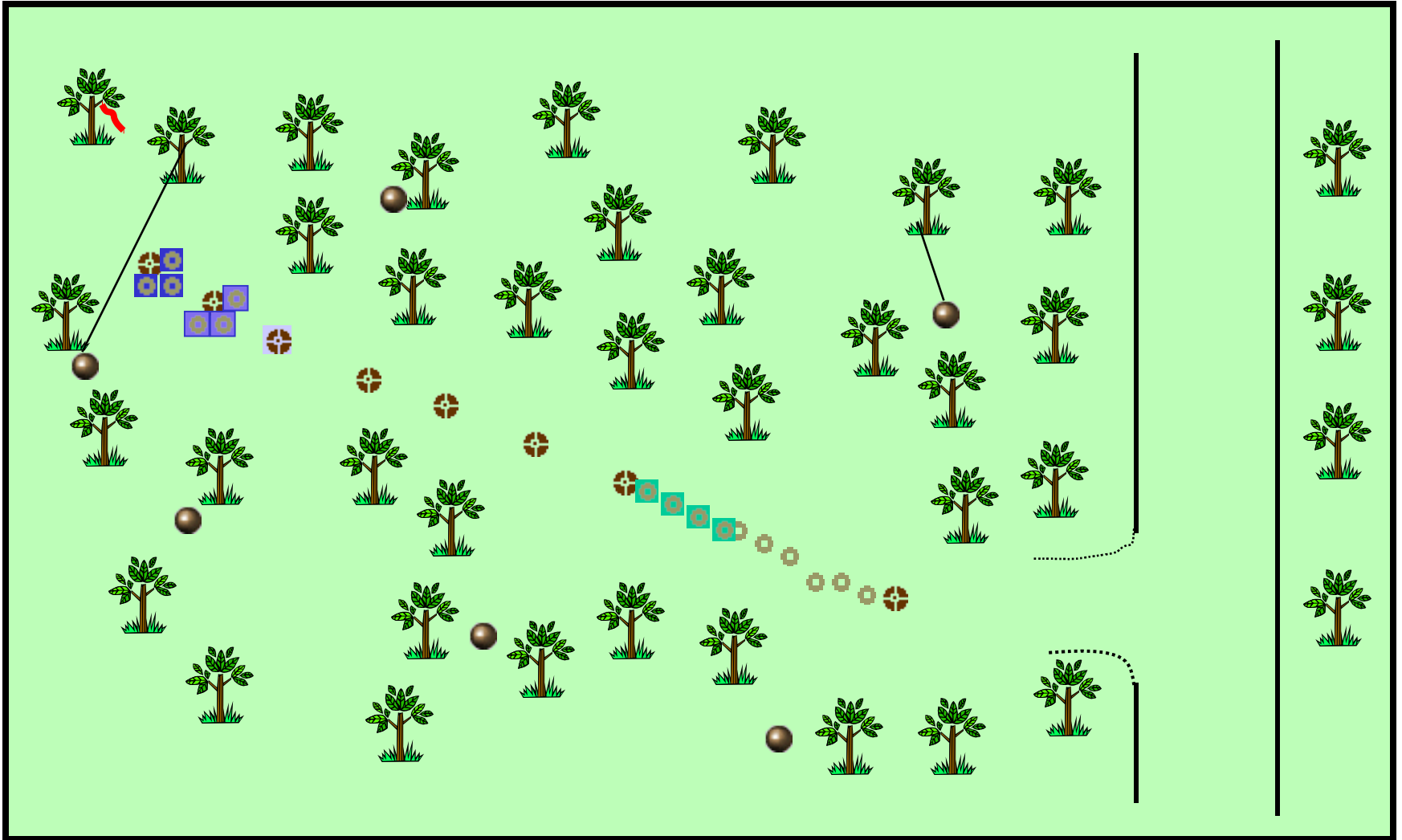




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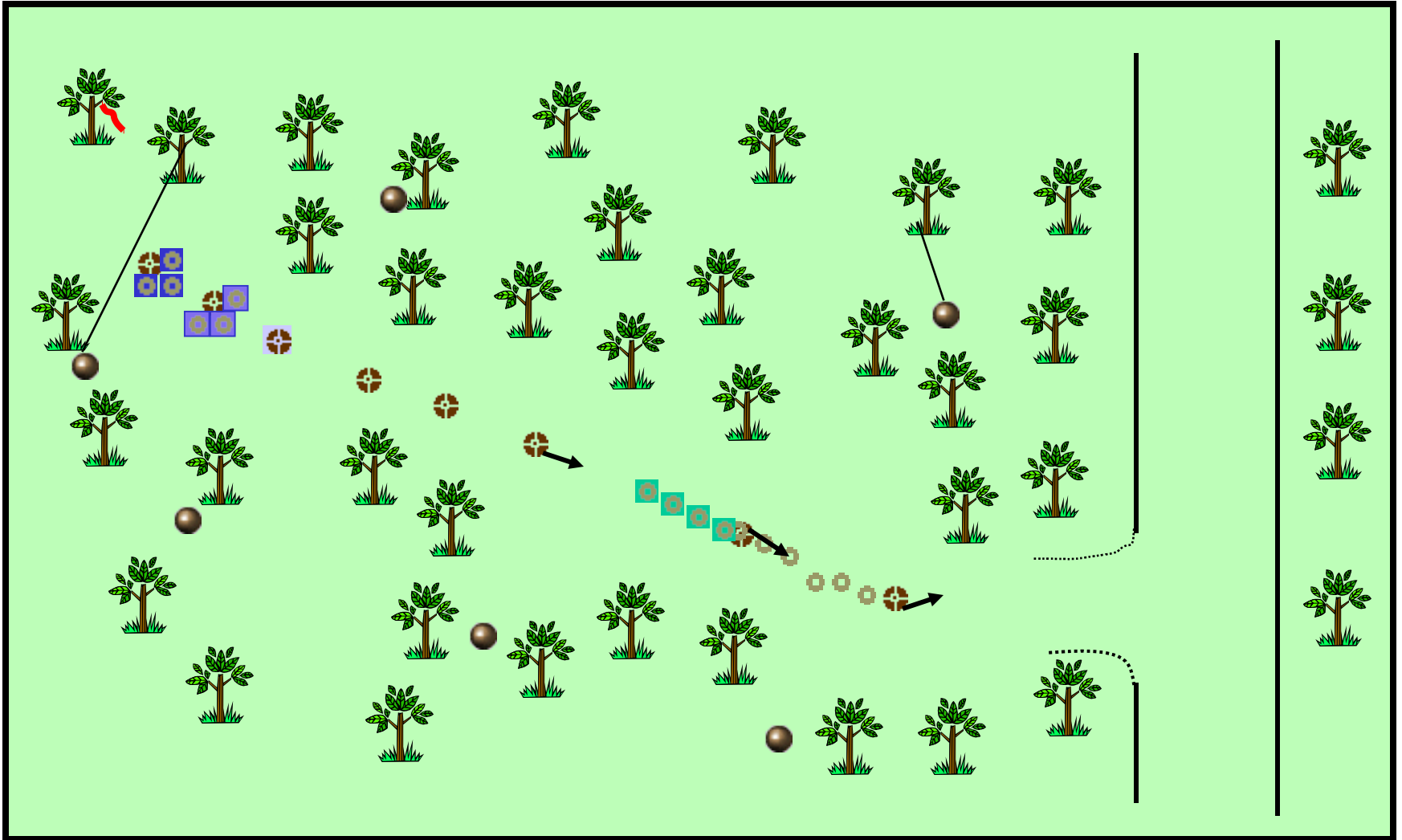


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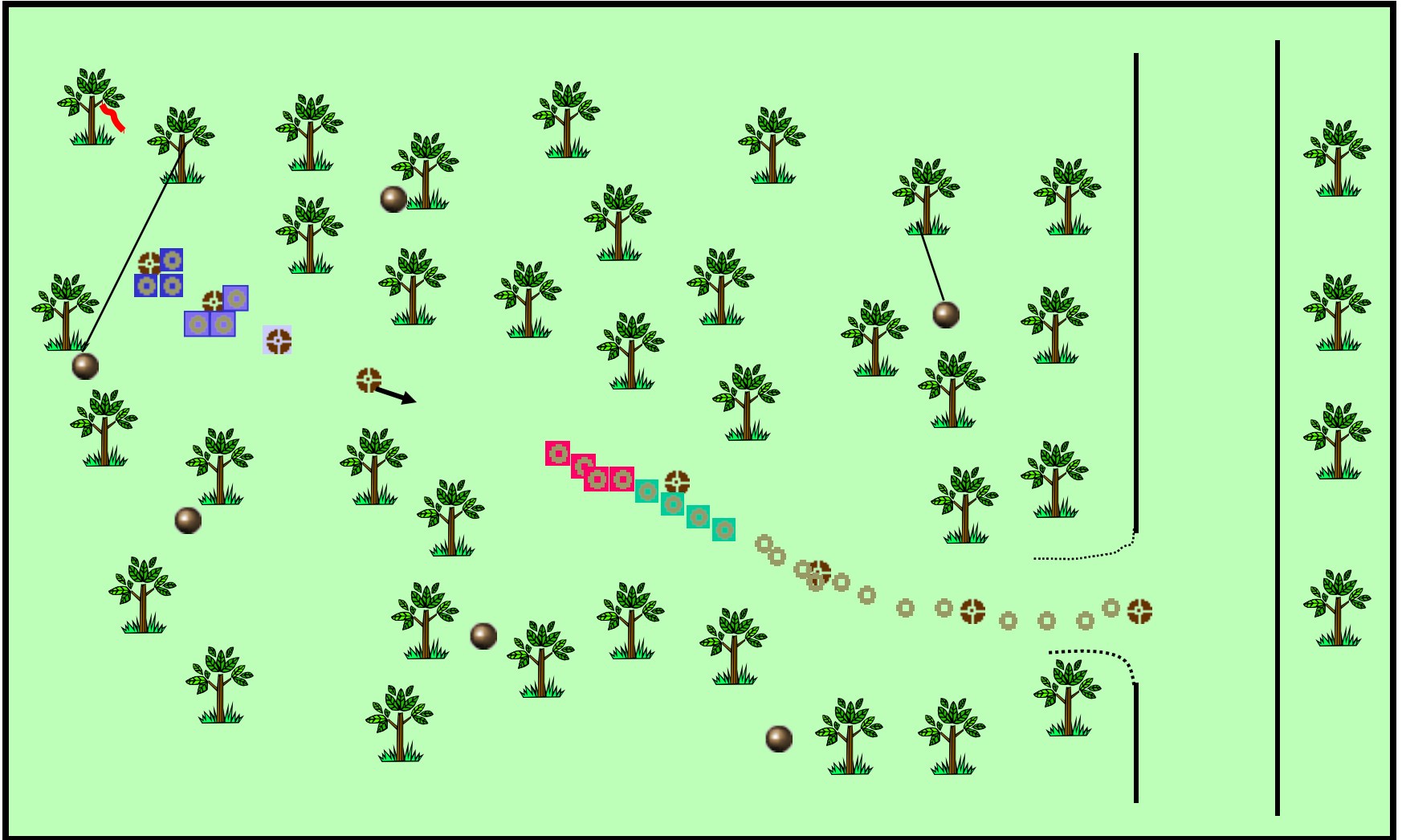




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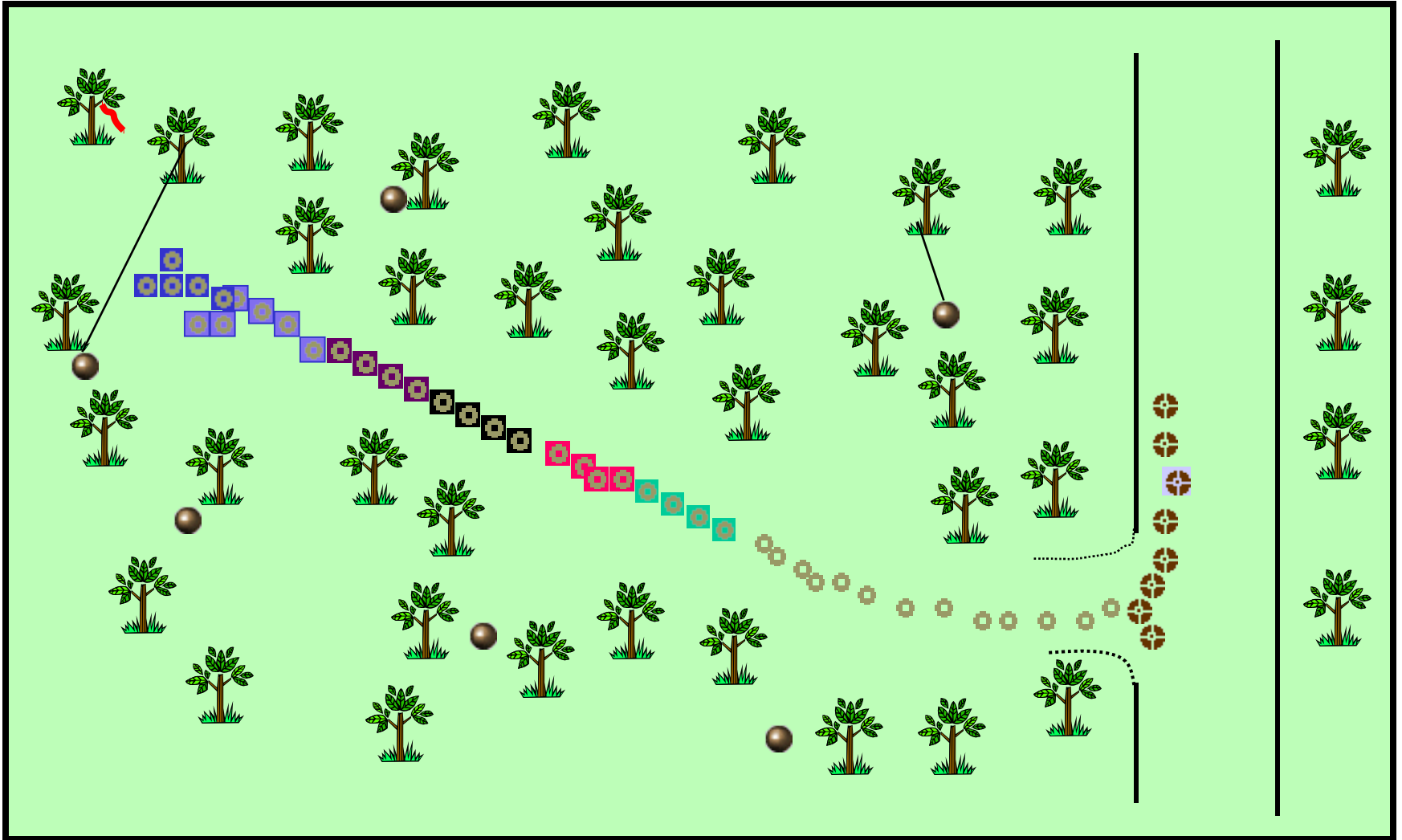


# HOW TO RESPOND IN A GROUP





# HOW TO RESPOND IN A GROUP

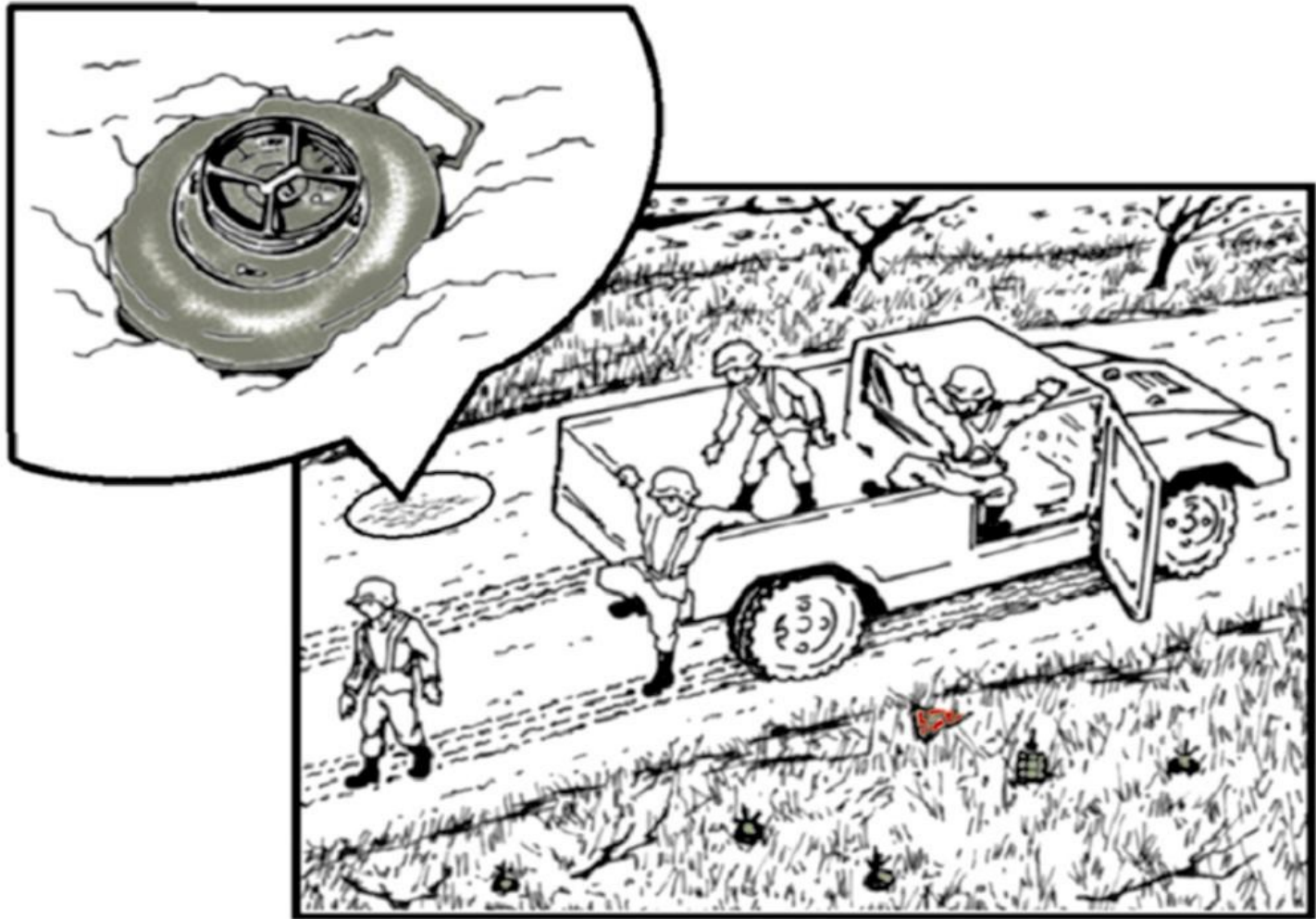


# VEHICLE MOUNTED EXTRACTION DRILLS



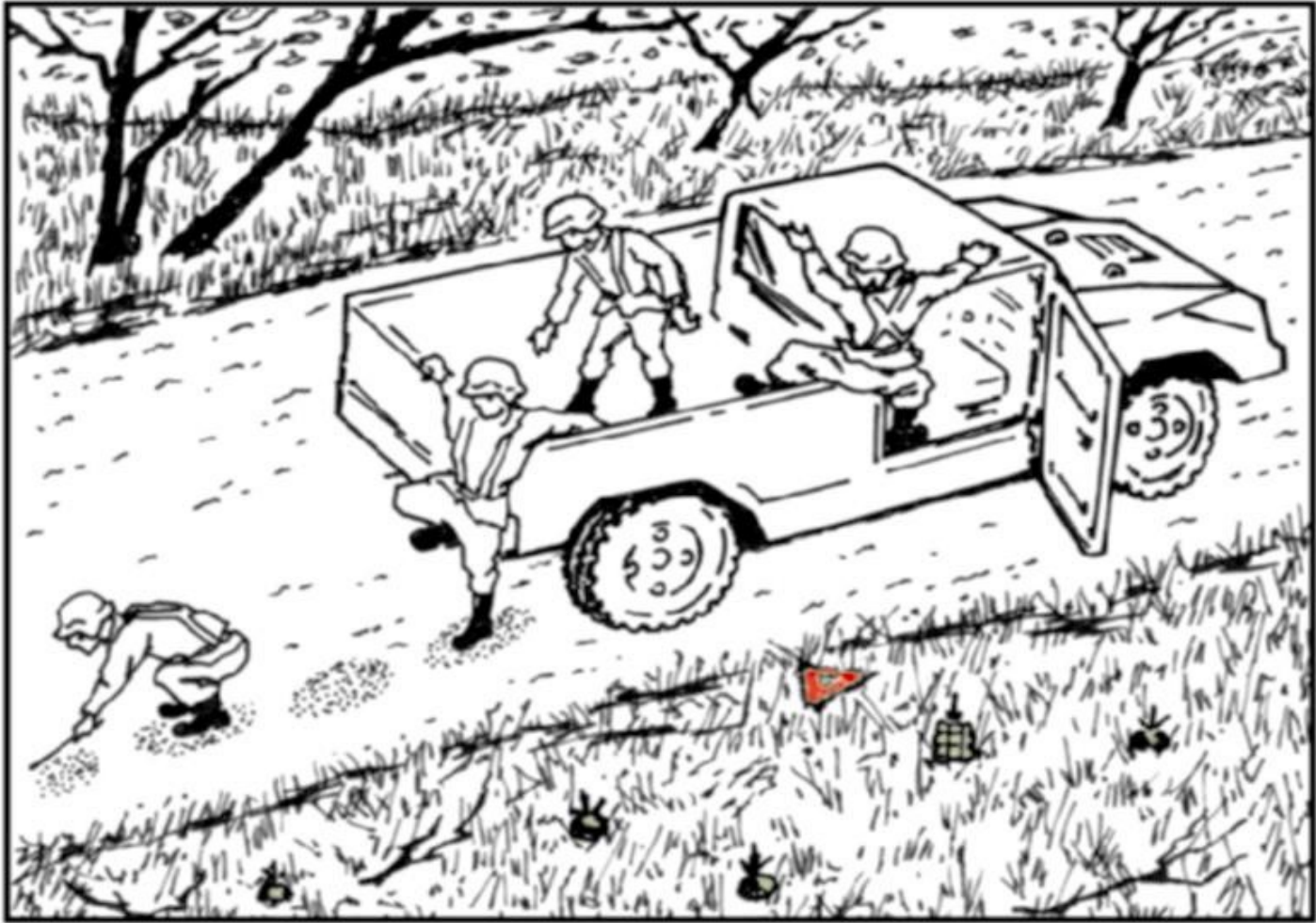


# VEHICLE EXTRACTION



**Use vehicle tracks**






# VEHICLE EXTRACTION



**If no tracks, probe to hardball**



# **CASUALTY EXTRACTION**

-  **Continually reassure casualty**
-  **Exit yourself and mark path**
-  **Re-enter along marked area**
-  **Clear path to casualty**
-  **Recover casualty**

# CASUALTY EXTRACTION

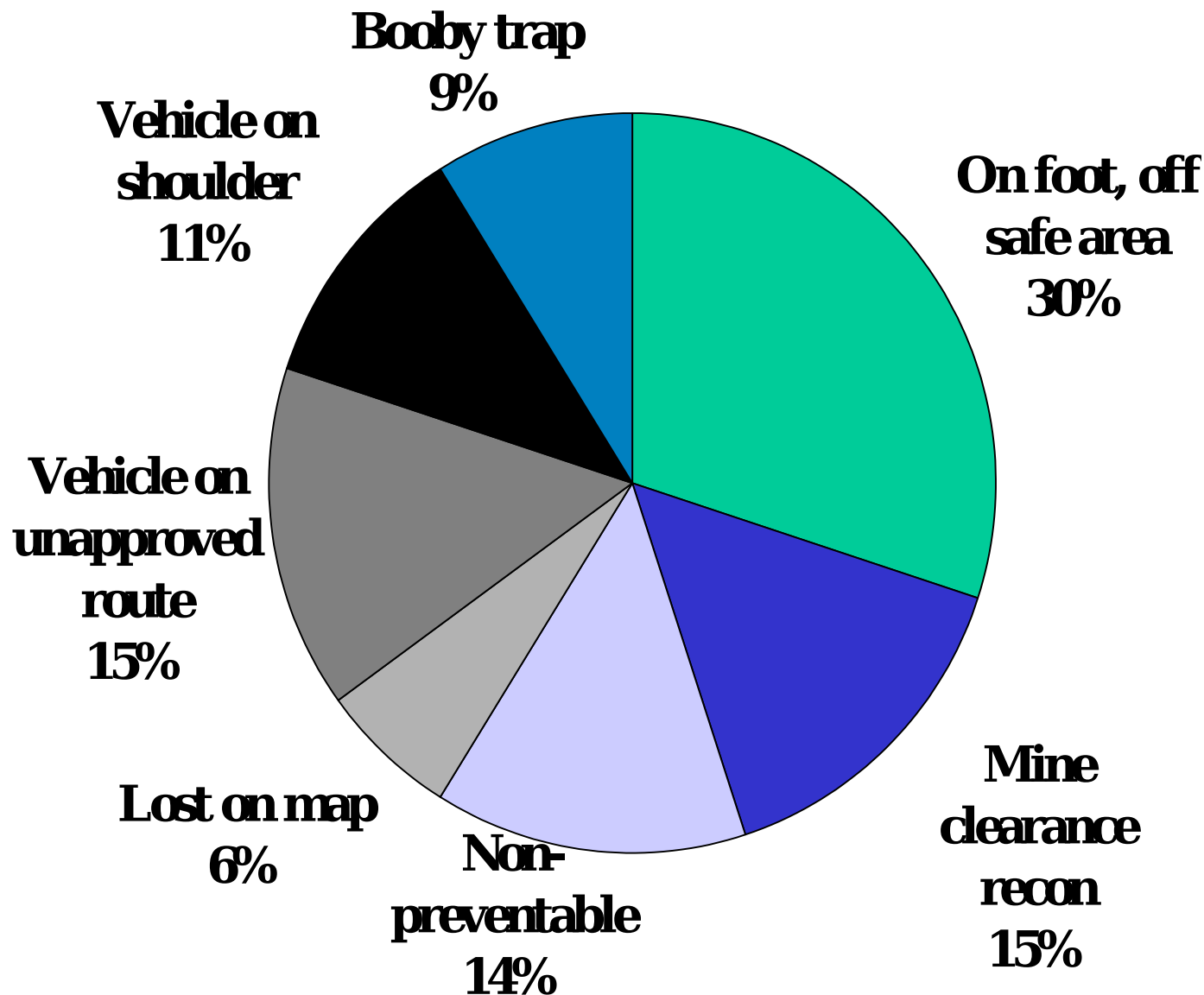




# CASUALTY EXTRACTION

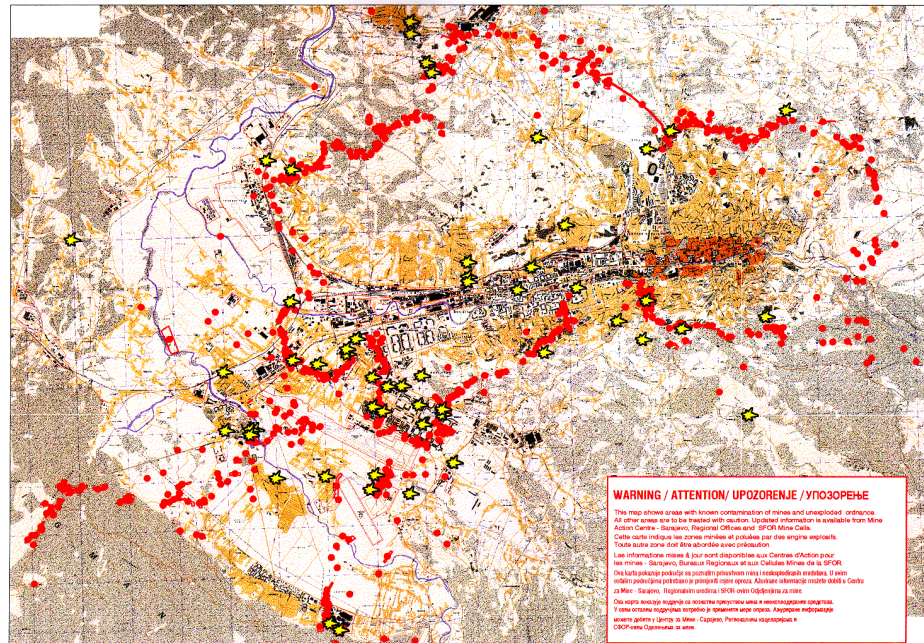


# **Analysis of Recent Peacetime Military Mine Incidents**





# **SUMMARY**



AS AT MAR 1998

SCALE 1 : 75,000

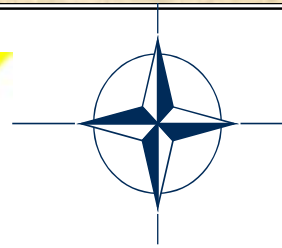


PREPARED &amp; PRINTED BY UN MAC SARAJEVO

- **Always carry updated minefield information maps**

**Note! You have time. Don't rush and become a casualty yourself! Always call for specialist**





# MINEFIELD MARKING



***Be Mine Aware!!***

**MINES INFORMATION COORDINATION CELL**

Tito Barracks, Sarajevo, BFPO 543 UK  
Phone: 146-6040, PTT + (387)(71)495 625  
Fax: 146-5625, PTT +(387)(71) 495 625

©MICC/GWN-98



# STAY ON THE ROAD!



***Stay Mine Aware!!***

**MINES INFORMATION COORDINATION CELL**

Tito Barracks, Sarajevo, BFPO 543 UK

Phone: 146-6040, PTT +(387)(71)495 625

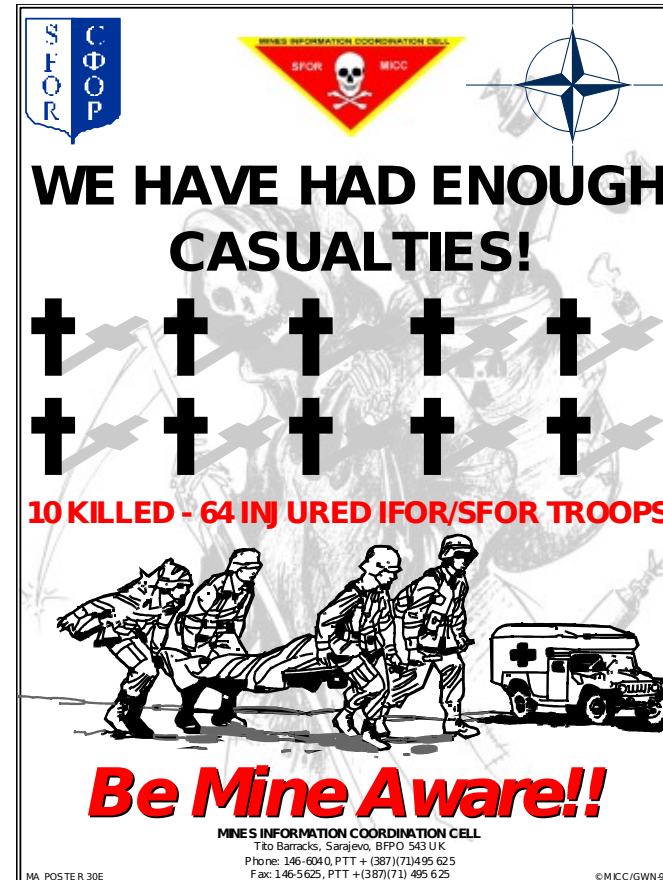
Fax: 146-5625, PTT +(387)(71) 495 625



**IF YOU DIDN'T  
DROP IT.....**

**DON'T PICK IT UP!**





**Remember:**

*Mines Awareness is a matter of attitude*